

25-PAIR OSP BACKBONE CABLING. REFER TO SPECIFICATIONS FOR ADDITIONAL

REFER TO FLOOR PLANS FOR QUANTITY OF CABLES AND JACKS TO BE INSTALLED AT EACH INFORMATION OUTLET.

23 GAUGE, 4-PAIR, CATEGORY 6, UNSHIELDED TWISTED PAIR CABLE, REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

4 CONTRACTOR PROVIDED, AND INSTALLED CATEGORY 3 PATCH CABLE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

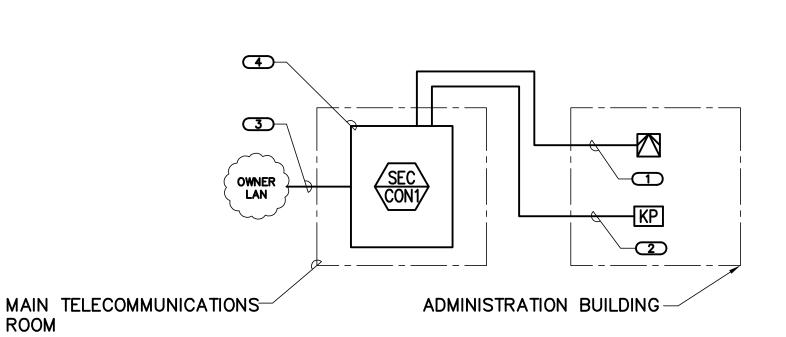
12-STRAND INDOOR/OUTDOOR 62.5 MICRON MULTIMODE FIBER. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

50-PAIR CATEGORY 3 CABLE, REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION. CONTRACTOR SHALL TERMINATE 1-PAIR PER PORT ON PINS 4 & 5. COIL THE 25TH PAIR FOR FUTURE AND SHALL BE ABLE TO TERMINATE ON ANY OF THE 24 PORTS.

CROSS CONNECT PROVIDED AND INSTALL BY SERVICE PROVIDER.

8 OWNER PROVIDED AND INSTALLED FIBER PATCH CORD.

9 OWNER PROVIDED AN INSTALLED PATCH CABLE.



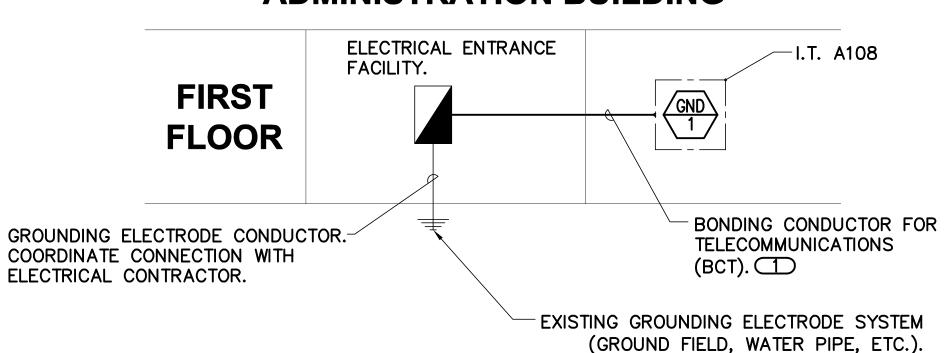
# **INTRUSION DETECTION RISER**

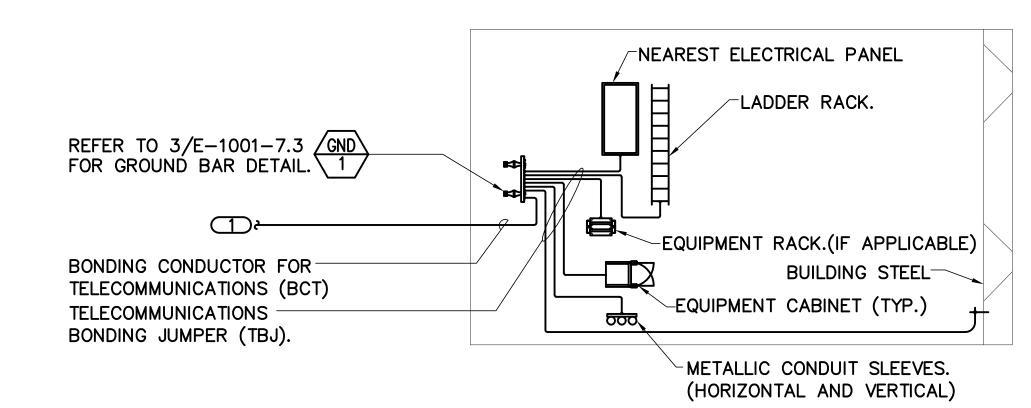
INFORMATION.

ROOM

- 1. THIS RISER IS DIAGRAMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CABLE TYPE. ALL KEYPADS AND MOTION PIR ARE TYPICAL IN THE AREA SHOWN. REFER TO FLOOR PLANS FOR MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PROGRAMMING TO INSURE A COMPLETE INSTALLATION. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. **KEYNOTES:**
- (1) 22AWG 4-PAIR UTP CABLE.
- (1) 18AWG 4-PAIR OR (1) 22AWG UTP CABLE. CONTRACTOR SHALL VÉRIFY RESISTANCE AND SHALL NOT EXCEED 14 Ω.
- (3) CONTRACTOR PROVIDED AND INSTALL CATEGORY 6 PATCH CABLE.
- 4 REFER TO 2/E-1001-7.3 FOR ADDITIONAL INFORMATION.

# **ADMINISTRATION BUILDING**





#### **GROUNDING RISER DIAGRAM** NO SCALE

#### NOTES:

- 1. ALL CONDUCTORS IN THE TELECOMMUNICATIONS GROUNDING SYSTEM SHALL BE MINIMUM SIZE OF #6 AWG PLENUM RATED COPPER CONDUCTORS (GREEN) UNLESS DISTANCE IS GREATER THAN 12 FEET, THEN REFER TO GROUNDING CONDUCTOR SIZING SCHEDULE FOR SIZING CRITERIA
- 2. GROUNDING CONDUCTORS AND BONDING JUMPERS SHALL BE CONNECTED BY EXOTHERMIC WELDING, LISTED PRESSURE CONNECTORS, LISTED CLAMPS OR OTHER LISTED MEANS. SOLDER IS NOT AN ACCEPTABLE MEANS OF CONNECTION.
- 3. REFER TO 3/E-1001-7.2 FOR TELECOM ROOM GROUNDING DETAIL

#### **KEYNOTES**:

1 BCT SHALL BE AT LEAST THE SAME SIZE AS THE TBB. REFER TO GROUNDING CONDUCTOR SIZING SCHEDULE FOR SIZING REQUIREMENTS.

GROUNDING CONDUCTOR SIZING SCHEDULE	
CONDUCTOR LENGTH IN FEET	MIMIMUM ACCEPTABLE SIZE — AWG
LESS THAN 13'	6
14' - 20'	4
21' - 26'	3
27' - 33'	2
34' - 41'	1
42' - 52'	1/0
53' - 66'	2/0
GREATER THAN 66'	3/0

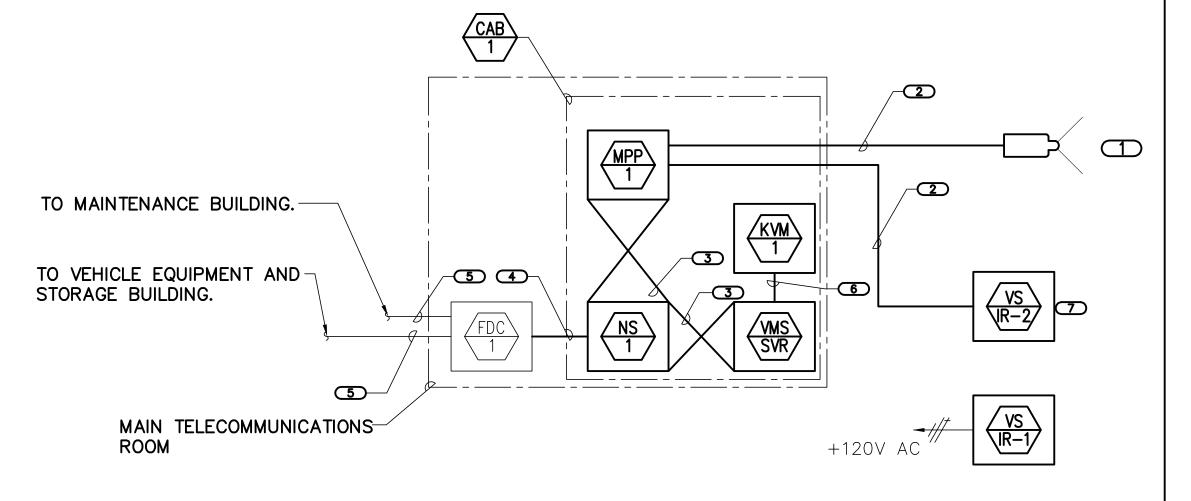
## **TELECOM ROOM GROUNDING DETAIL**

#### NOTES:

- ALL CONDUCTORS IN THE TELECOMMUNICATIONS GROUNDING SYSTEM SHALL BE #6 AWG PLENUM RATED COPPER CONDUCTORS (GREEN) UNLESS DISTANCE IS GREATER THAN 12 FEET, THEN SEE GROUNDING CONDUCTOR SIZING SCHEDULE.
- 2. SHEET METAL SCREWS SHALL NOT BE USED TO CONNECT TELECOMMUNICATIONS BONDING JUMPERS TO EQUIPMENT. ALL CONNECTIONS SHALL UTILIZE LISTED HARDWARE.
- 3. BONDING TO PAINT TREATED SURFACES SHALL UTILIZE PAINT PIERCING LUGS.
- 4. GROUNDING DETAIL IS DIAGRAMMATIC, REFER TO ENLARGED PLANS FOR QUANTITIES AND LOCATION OF EQUIPMENT.

#### **KEYNOTES:**

TO ELECTRICAL ENTRANCE FACILITY. REFER TO 2/E-1001-7.2 FOR GROUNDING RISER DIAGRAM.



#### -SAFETY CHAIN/WIRE -DOME CAMERA BODY -SPRING CLIPS -CEILING TILE OR GYPSUM BOARD (SEE ARCHITECTURAL PLANS) -RECESSED MOUNT TRIM RING -CLEAR OR SMOKED DOME -CAMERA

### INTERIOR FIXED CAMERA **CEILING MOUNTING DETAIL**

### SCALE: 3"=1'-0"

1. COORDINATE INSTALLATION WITH CEILING INSTALLATION.

2. REFER TO MANUFACTURER SPECIFICATIONS FOR INSTALLATION DETAILS.

#### **CCTV CAMERA RISER DIAGRAM** NO SCALE

NOTES:

1. THIS RISER IS DIAGRAMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CABLE TYPE. ALL CAMERAS ARE TYPICAL IN THE AREA SHOWN. REFER TO FLOOR PLANS AND SITE PLAN ON E-2.1 FOR MORE SPECIFIC ROUTING

INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

- 2. CONTRACTOR SHALL PROVIDE AND INSTALL (1) SERVER LICENSE ON THE (CMS/SVR).
- 3. CONTRACTOR SHALL PROVIDE AND INSTALL A MINIMUM OF (3) USER LICENSES FOR VIEWING OF CAMERAS. LICENSES SHALL BE INSTALLED ON OWNER PROVIDED COMPUTERS.

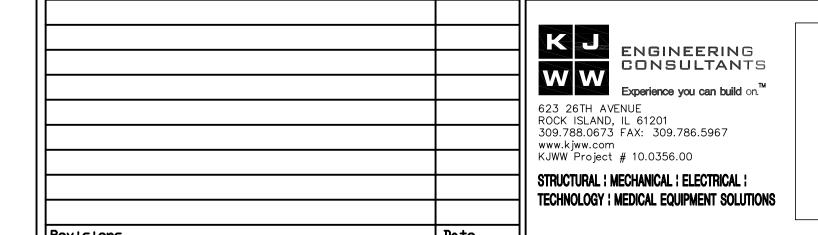
#### **KEYNOTES:**

- REFER TO ADMINISTRATION FLOOR PLAN ON E-1001-7.5 AND SECURITY SITE PLAN ON E-2.1 FOR QUANTITY OF CABLES, JACKS, AND CAMERAS TO BE INSTALLED AT EACH LOCATION.
- (1) 23 GAUGE, 4-PAIR CATEGORY 6 UNSHIELDED TWISTED PAIR CABLE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 3 CONTRACTOR PROVIDED AND INSTALL CATEGORY 6 PATCH CABLE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 4 CONTRACTOR PROVIDED AND INSTALLED FIBER CROSS CONNECT.
- $\bigcirc$  REFER TO 1/E-1001-7.2 FOR ADDITIONAL INFORMATION.
- 6 VGA CABLE.
- 7 ILLUMINATOR IS POE. IF ILLUMINATOR REQUIRES 120V AC POWER DUE TO MANUFACTURE EQUIVALENT CONTRACTOR SHALL PROVIDE NECESSARY POWER.

# BID DOCUMENTS 7/1/2011

**EAGLE POINT, OR 97524** 

7-1-2011



I hearby certify that this Plan, Specification, or Report was prepared by me, or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Oregon. Lee D. VanOpdorp Discipline: Electrical Oregon Registration No. 78702PE Expiration date: 06.30.12

Date Issued: \*\* \*\* \*\*

SCALE: 3"=1'-0"

# Anderson Engineering of Minnesota, LLC

—(1) 1" CONDUIT FOR LOW VOLTAGE CABLING

-SECURE WITH MOUNTING FASTENERS

OF APPROPRIATE LENGTH AND SIZE,

-DOME BODY

-SMOKED DOME

SUITED FOR ENVIRONMENT.

WALL MOUNT PENDANT

**EXTERIOR FIXED CAMERA** 

**WALL MOUNTING DETAIL** 

NOTES:
1. SECURE WALL MOUNT BASE PLATE WITH MINIMUM 1/4" FASTENERS.

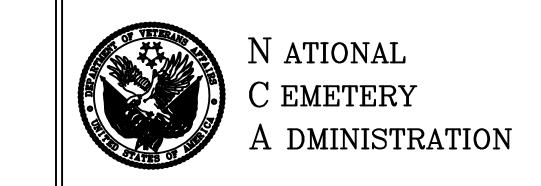
2. REFER TO MANUFACTURER SPECIFICATIONS FOR INSTALLATION.

ONLY. REFER TO 1/E-1001-7.5 FOR

ADDITIONAL INFORMATION.

-ADJUSTMENT PLATE

13605 1st AVENUE NORTH, SUITE 100, PLYMOUTH, MN 55441 TEL (763) 412-4000 FAX (763) 412-4090 www.ae-mn.com



pproved: Director, Office of Construction Management		Checked PETM
TECHNOLOGY RISERS AND DETAILS	REPLACE AD MAINTEN AND SITE	ANCE E
rawing Title	Project Title	

STRATION AND BUILDING Project No. **OVEMENTS** 906CM3009 Drawn DRAWING NO. MCG || JAYSTI E-1001-7.2 Approved: Director, Project Management Service Location EAGLE POINT NATIONAL CEMETERY 2763 RILEY ROAD Dwg. 98 Of 181